

ABSTRACT

[Problem to Be Solved]

- 5        To realize an anisotropic bonded magnet that reduces cogging torque without lowering output torque.

[Means for Solving the Problem]

- 10        The present invention provides a hollow cylindrically shaped anisotropic bonded magnet for use in a 4-pole motor, formed by molding anisotropic rare-earth magnet powder with resin. The alignment distribution of the anisotropic rare-earth magnet powder in a cross section perpendicular to the axis of the anisotropic bonded magnet is in the normalized direction of the cylindrical side of the hollow cylindrical shape in the main region of a polar  
15        period, and in a transition region in which the direction of the magnetic pole changes, steadily points towards a direction tangential to the periphery of the cylindrical side at points closer to the neutral point of the magnetic pole, and becomes a direction tangential to the periphery of the cylindrical side at that neutral point, and steadily points toward the normalized direction of  
20        the cylindrical side at points farther away from the neutral point.

[Selected Drawings]

FIG. 1

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